



IPR-10G-HDMI

IPR-10G-HDMI Mini-Converter is designed to bridge SMPTE ST 2110 networks to HDMI, with support up to UltraHD 50p or HD 60p.

\$ US MSRP

The IPR-10G-HDMI receives SMPTE ST 2110 audio and video over 10 GigE, and then de-encapsulates the data to output baseband HDMI video. Associated audio from the SMPTE ST 2110 stream is likewise extracted, synchronized, and embedded into the HDMI output. Simultaneously, analog stereo audio is available via the dual RCA outputs.

IPR-10G-HDMI includes a full-size HDMI 1.4b video output for seamless integration into existing baseband environments such as master control, trucks, edit suites, multi-viewer applications and HDMI displays.

<https://www.aja.com/products/ipr-10g-hdmi>

Video Format

- (UltraHD) 3840x2160p 23.98, 24, 25, 29.97, 30, 50
- (HD) 1920x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920x1080i 50, 59.94
- (HD) 1280x720p 50, 59.94, 60
- (SD) 625i 50
- (SD) 525i 59.94

Video Quality

- Up to 1080 60p, 4:2:2, 10-bit, YCbCr/RGB uncompressed
- Up to UltraHD 30p, 4:2:2, 8-bit, YCbCr uncompressed
- Up to UltraHD 50p, 4:2:0, 8-bit, YCbCr uncompressed

Discovery, Registration and Control

- NMOS discovery and control according to standards IS-04 v1.3 and IS-05 v1.1
- Ember+ control (no discovery, control only)
- AJA REST API control (discovery via SSDP or MDNS)
- LLDP (Link Layer Discovery Protocol)
- Supported over dedicated management Ethernet port and in-band over media ports

Media Transport Interfaces

- SMPTE ST 2110
 - 1x SFP+ Cages - SFPs not included
- Recommended 10 GigE SFP+ modules:
 - Arista Networks SFP-10G-SR Compatible 10GBASE-SR
 - Fiberstore SFP-10GSR-85 10G SFP+ 850nm
 - Finisar FTLX1471D3BCL (for single mode 1310nm)
 - Mellanox MFM1T02A-SR 850nm 10G

Note: Maximum supported SFP+ power is 500 mWatts

Video Input IP

- SMPTE ST 2110
 - Single channel input up to UltraHD
 - Rx support for Narrow/Wide, Gapped/Linear Modes

Audio Input IP

- SMPTE ST 2110
 - Up to 16-channels* audio, 24-bit per channel, 48 kHz synchronous
 - 1 ms or 125 μ s packet interval

*Streams with up to 16-channels are received but only the first 8 are output

Video Output Digital

- 1x HDMI Standard Type A connector
 - HDMI v1.4b 24/30-bits per pixel
 - Concealment of errors due to packet loss*

*Error concealment functionality supported up to 1080p 60 (UltraHD is not supported)

Audio Output Digital

- Up to 8-channel embedded audio, 24-bit per channel, 48 kHz synchronous

Audio Output Analog

- 2x RCA analog audio
 - Levels at -10 dBu (nominal)

IP Clock

- PTP support compliant with PTP PTPv2 / IEEE 1588-2008
- SMPTE ST 2059-1 compliant

User Interface

- 1x RJ-45 for 10/100/1000 Base-T Ethernet
 - Web and REST clients supported
- 1x USB 2.0 Mini-B connector
 - AJA eMini-Setup of network parameters via local desktop computer

Size (w x d x h)

- 5.53" x 4.48" x 0.954" (140.46 x 113.79 x 24.23 mm)

Weight

- 0.6 lb (0.3 kg)

Power

- 5-20VDC Regulated, 13 Watts, Power supply required (DWP-U-R1 included with purchase)

Environment

- Safe Operating Temperature: 0 to 40 C (32 to 104 F)
- Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)